

## ABSTRACT

A photodetector IC in an optical head device includes a four-segment photodetector (30) and a push-pull signal generator (33). The push-pull signal generator (33) generates a sum signal (A+D) of radially outer photodetector segments and a sum signal (B+C) of radially inner photodetector segments. The sum signal (B+C) is multiplied with a coefficient t entered from outside and a signal  $((A+D) - t \times (B+C))$  is generated by a subtractor. The signal generated is output as a radial push-pull signal (R-PP). The coefficient t is a value corresponding to the ratio of the light volume of the outer rim side photodetector segments and the light volume of the inner rim side photodetector segments.